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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,023	01/26/2004	Richard M. Podhajny	525.1023-CIP	1299
20311	7590	09/26/2007	EXAMINER	
LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH 15TH FLOOR NEW YORK, NY 10016			MERCIER, MELISSA S	
		ART UNIT	PAPER NUMBER	
		1615		
		MAIL DATE	DELIVERY MODE	
		09/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/765,023	PODHAJNY, RICHARD M.
	Examiner	Art Unit
	Melissa S. Mercier	1615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 7-17-07.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-30 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Summary

Receipt of Applicants Remarks and Amended Claims filed on July 17, 2007 is acknowledged. Claims 1-30 remain under prosecution in this application. Rejections and/or objections not reiterated from previous Office Actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-2, 7-12, 16-19, 21-23, and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niira et al. (US Patent 4,938,958).

Niira discloses an antimicrobial zeolite composition and resin comprising said composition. The composition comprises a thermoplastic or thermosetting resin such as polyethylene, polystyrene, polyvinyl chloride, and acrylic resins (column 4, lines 24 - 33). The zeolite composition can be comprised of various metal ions including silver, copper, zinc, mercury, tin, lead bismuth, cadmium, chromium, and thallium (column 2, lines 35-41). The resin is prepared either by incorporating the zeolite composition within the resin or coating it on the surface of the plastics, and is present in the coating in a concentration from 0.1 to 3% wt (column 4, lines 34-45). Niira further discloses it can be incorporated into and applied in the papermaking arts including paper packaging

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(column 5, lines 4 - 20). Also, as well known in the art, as seen in example 1, which discloses 11 kinds of zeolites which vary in particle size from 0.7 - 5 microns depending on which particular type are being used (column 5, lines 25 - 39).

With regard to the pore size of the zeolite it is the position of the examiner that such limitations so not impart patentability over the prior art. Applicant ahs expressed in the specification that the limitations such as particle size and pore size are merely the preferred embodiments, and are hence non-critical to the overall patentability of the invention. When taken into consideration that both Niira references achieves the same goal of a coated polymer resin with antimicrobial qualities, the particular limitations such as particle size, and pore size are non\l-critical and would be obvious to a skilled artisan. Barring a showing of unexpected results regarding the pore size of the claimed invention, the claimed invention cannot be deemed patentably distinct over the prior art.

With regard to the orientation of the coating layer (discontinuous, continuous), it is the position of the examiner that the limitation is non-critical to the patentability of the invention. It is also the position of the examiner that the orientation of the layer (discontinuous or continuous) would be well within the level of ordinary skill in the art to adjust. It would be obvious to a skilled artisan to apply the layer in whichever pattern best suited the application of the packaging material. These two limitation can be achieved through routine experimentation, and modification by those of ordinary skill it the art.

With regard to claim 22-23 that the method of printing is preformed by a particular method, these claims are deemed a product-by-process claim and do not

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distinguish the claim from the prior art. The prior art provides a composition with identical components, although produced by a different process; the burden is shifted to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. See *In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983).

Applicant is reminded that where the general conditions of the claims are met, burden is shifted to applicant to provide a patentable distinction. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. See *In re Aller*, 220 F.2d 454 105 USPQ 233,235 (CCPA 1955).

Claims 3-6, 14-15, and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niira et al. (US Patent 4,938,958) "US'958", in view of Niira et al. (US Patent 5,556,699) "US'699".

The teachings of "US'958" are discussed above and applied in the same manner.

US958 does not disclose the thickness of the zeolite coating on the substrate.

US'699 discloses an antimicrobial zeolite coating film. The film can be incorporated into or on, resins and polymers such as polyester (column 4, lines 24 - 44). US699 discloses admixing the antibiotic zeolite and an organic polymeric compound can produce the antibiotic films. The resin flakes can be dissolved in water or in an organic solvent (column 4, lines 45-58). The coating film can be as thick as 3 - 6 microns when applied to the surface of a substrate (col. 4, line. 59 - 65). The coatings

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can be used in food packaging materials (Abstract).

It would have been obvious to a person of ordinary skill in the art to combine the teachings of US'958 and US'699 in order to make an antibiotic zeolite-containing film having a relatively low content of antibiotic zeolite which exhibits a satisfactory antibiotic action and transparency compatible to that of conventional antibiotic films (column 1, lines 9-54). Additionally, Applicant is reminded that where the general conditions of the claims are met, burden is shifted to applicant to provide a patentable distinction. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. See *In re Aller*, 220 F.2d 454 105 USPQ 233,235 (CCPA 1955).

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niira et al. (US Patent 4,938,958) in view of Neumann (US Patent 4,322,929).

The teachings of Niira are disclosed above and applied in the same manner.

Niira does not disclose the use of nitrocellulose.

Neumann discloses a method of applying a coating onto a packaging material comprising nitrocellulose (column 2, lines 20-34).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have substituted nitrocellulose as a polymer into the teachings of polymers taught by Niira since Neumann discloses the same use of the polymer composition.

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Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niira et al. (US Patent 4,938,958) in view of Lindgren et al. (US Patent 5,603,997).

The teachings of Niira are discussed above and applied in the same manner.

Niira does not disclose the hydrophobic of the zeolite coating.

With regard to the hydrophobicity of the zeolite-coating compound, it is within the level of skill in the art to prepare a hydrophobic coating composition. Also the application and use of such coatings are known in the art as seen in Lindgren et al (Abstract).

It would have been obvious to a person of ordinary skill in the art to utilize a hydrophobic coating since, the art of food packaging preparation hydrophobic metallic zeolite compositions are used to repel water and reduce mildew on the resulting packaging material (column 5, lines 13 - 47).

Response to Arguments

Applicant's arguments have been fully considered but they are not persuasive. Applicant argues Niira does not disclose the polymer used has an acid number of less than 200 as required by the instant claims. The examiner acknowledged that Niira is lacking a specific teaching of the acid number, however, it is the examiners position that since Niira discloses the use of the same polymers disclosed in the instant specification for the same intended function as the instant claims. It is additionally noted that the claims recite the polymer has an acid value of less than 200, not the composition comprising the polymer. Therefore, since the prior art teaches polyethylene and polypropylene, which have acid numbers of zero. Since Niira discloses the composition

to be suitable for printing it is the position of the examiner that the polymers used would have been acceptable. Additionally, it is the examiners position that, absent to a showing of the contrary, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have utilized any means or method available to print the dispersion onto a substrate.

Applicant's attention is also drawn to Strangehoner et al. (US Patent 4,851,460) which discloses by suitable choice of the acid numbers and hydroxyl numbers, hydrophilic groups are introduced in the molecule in such quantities that after neutralization with basic compounds they can be diluted (column 13, lines 27-55).

Applicant did not provide any additional arguments regarding any of the secondary references used.

Conclusion

No claims are allowable. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa S. Mercier whose telephone number is (571) 272-9039. The examiner can normally be reached on 7:30am-4pm Mon through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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